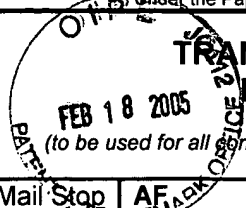



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

 TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/821,694
	Filing Date	March 28, 2001
	First Named Inventor	William Daniel Hills
	Art Unit	1634
	Examiner Name	Frank Wei Min Lu
Mail Stop AF	Attorney Docket Number	0450-0001

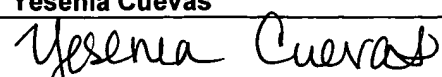
ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> No fee due <input checked="" type="checkbox"/> Fee Transmittal <input type="checkbox"/> Fee(s) due <input type="checkbox"/> Fee Transmittal <input type="checkbox"/> Check for \$* <input checked="" type="checkbox"/> Charge any underpayment or credit any overpayment to Deposit Account No. 18-0580 <input checked="" type="checkbox"/> Return postcard <input checked="" type="checkbox"/> Amendment/Reply <input checked="" type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement & Form(s) PTO-1449 <input type="checkbox"/> Copy(ies) of cited reference(s) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts / Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s):	<input type="checkbox"/> After Allowance Communication to a Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks:		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual Name (print/type)	Karen Canaan, Reg. No. 42,382 Reed Intellectual Property Law Group	Telephone	(650) 330-0900
Signature		Date	February 14, 2005

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Name (print/type)	Yesenia Cuevas		
Signature		Date	February 14, 2005

Application No. 09/821,694
Amendment dated February 14, 2005
Reply to final Office Action of December 14, 2004
EXPEDITED PROCEDURE – GROUP ART UNIT 1634

Atty Dkt No. 0450-0001



Corres. and Mail
BOX AF

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:
William Daniel HILLIS

Confirmation No.: 9199

Serial No.: 09/821,694

Group Art Unit: 1634

Filing Date: March 28, 2001

Examiner: Frank Wei Min LU

Title: METHOD AND SEQUENCES FOR DETERMINATE NUCLEIC ACID HYBRIDIZATION

**AMENDMENT UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE – EXAMINING GROUP 1634**

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Responsive to the final Office Action dated December 14, 2005, please reconsider this application in light of the amendments and remarks set forth in this paper. As this response is filed within two months of the mailing date of the Office Action, it is subject to the expedited procedures for after-final practice.

AMENDMENTS TO THE SPECIFICATION

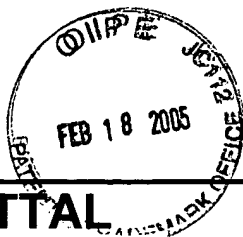
Amendments to the specification are set forth at page 2 of this paper.

AMENDMENTS TO THE CLAIMS:

The amendments to the claims are reflected in the listing of the claims set forth on pages 3 to 7 of this paper.

REMARKS:

The remarks in support of this application are set forth on pages 8 to 11 of this paper.



FEE TRANSMITTAL for FY 2005

Effective 10/01/03. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

\$0

Complete if Known

Application Number 09/821,694

Filing Date March 28, 2001

First Named Inventor William Daniel Hills

Examiner Name Frank Wei Min Lu

Group Art Unit 1634

Attorney Docket No. 0450-0001

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☒ None

☐ Deposit Account:

Deposit Account No. 18-0580

Deposit Account Name Reed IP Law Group

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Charge any underpayment or credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING, SEARCH AND EXAMINATION FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee (filed on or before 12/8/04)	
1011	300	2011	150	Utility filing fee (filed after 12/8/04)	
1111	500	2111	250	Search Fee	
1311	200	2311	100	Examination Fee	
1081	250	2081	125	For each additional 50 sheets exceeding 100	
SUBTOTAL (1)					\$0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
34	0	0	0
1	0	0	0
Multiple Dependent			0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	50	2202	25	Claim in excess of 20
1201	200	2201	100	Independent claims in excess of 3
1203	360	2203	180	Multiple dependent claim, if not paid
1204	200	2204	100	** Reissue independent claims over original patent
1205	50	2205	25	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

\$0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403	500	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	500	2452	250	Petition to revive - unavoidable	
1453	1,500	2453	750	Petition to revive - unintentional	
1501	1,400	2501	700	Utility issue fee (or reissue)	
1502	800	2502	400	Design issue fee	
1503	1,100	2503	550	Plant issue fee	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1814	130	2814	65.00	Statutory Disclaimer	
Other fee (specify)					
*Reduced by Basic Filing Fee Paid					
SUBTOTAL (3)					\$0

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Karen Canaan	Registration No. (Attorney/Agent)	42,382	Telephone	(650) 330-0900
Signature				Date	February 14, 2005